

Techmer ES HiFill[®] TPU GF20 20% Glass Filled

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Glass Filled

Material Notes:

Availability: North America
 Forms: Pellets
 Filler/Reinforcement: Glass Fiber Reinforcement, 20% Filler by Weight
 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-TPU-GF20-20-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|---------------------|---------------------------|---------------------------|-----------|
| Density | 1.37 g/cc | 0.0495 lb/in ³ | ASTM D792 |
| Water Absorption | 0.30 % @Time 86400 sec | 0.30 % @Time 24.0 hour | ASTM D570 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R | 60 | 60 | ASTM D785 |
| Tensile Strength, Yield | 52.4 MPa | 7600 psi | ASTM D638 |
| Elongation at Yield | 35 % | 35 % | ASTM D638 |
| Flexural Yield Strength | 62.1 MPa | 9000 psi | ASTM D790 |
| Flexural Modulus | 1.00 GPa | 145 ksi | ASTM D790 |
| Izod Impact, Notched | 6.41 J/cm @Thickness 3.17 mm | 12.0 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--|--|-----------------------|
| CTE, linear, Parallel to Flow | 55.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 31.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 171 $\text{Å}^\circ\text{C}$ | 340 $\text{Å}^\circ\text{F}$ | Unannealed; ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|----------------------------------|
| Volume Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | ASTM D257 |
| Dielectric Strength | 15.7 kV/mm | 400 kV/in | Method A (Short-Time); ASTM D149 |

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